

WHAT IS CLAIMED IS:

1. A control device for controlling a control target device by using a control command, comprising:
 - 5 a control information acquisition unit configured to acquire a control information containing a plurality of operation instructions and control commands respectively corresponding to the operation instructions, for controlling the control target device;
 - 10 a control information storing unit configured to store the control information in a rewritable form;
a recognition unit configured to recognize an operation instruction entered by a user;
a command search unit configured to carry out a search
 - 15 to check whether the operation instruction recognized by the recognition unit is contained in the control information stored by the control information storing unit, and output a control command corresponding to the operation instruction when the operation instruction is contained in
 - 20 the control information; and
a command transmission unit configured to transmit the control command outputted by the command search unit to the control target device.
- 25 2. The control device of claim 1, wherein each operation instruction in the control information is given in a form of speech information, and the recognition unit recognizes the operation instruction entered by the user according to the speech information.
- 30 3. The control device of claim 1, wherein each operation instruction in the control information is given in a form of image information, and the recognition unit recognizes the operation instruction entered by the user according to
- 35 the image information.

4. The control device of claim 1, wherein each operation instruction in the control information is given in a form of text information, and the recognition unit recognizes the operation instruction entered by the user according to the text information.

5. The control device of claim 1, wherein the control information acquisition unit acquires the control information for controlling the control target device by requesting the control information to the control target device.

6. The control device of claim 5, wherein the control information acquisition unit requests the control information to the control target device when a new control information that is not stored by the control information storing unit is to be acquired.

7. A computer program product for causing a computer to function as a control device for controlling a control target device by using a control command, the computer program product comprising:

a first computer program code for causing the computer to acquire a control information containing a plurality of operation instructions and control commands respectively corresponding to the operation instructions, for controlling the control target device;

a second computer program code for causing the computer to store the control information in a rewritable form;

a third computer program code for causing the computer to recognize an operation instruction entered by a user;

a fourth computer program code for causing the computer to carry out a search to check whether the

operation instruction recognized by the third computer program code is contained in the control information stored by the second computer program code, and output a control command corresponding to the operation instruction when the
5 operation instruction is contained in the control information; and

a fifth computer program code for causing the computer to transmit the control command outputted by the fourth computer program code to the control target device.

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8. A control system comprising;

a control target device for carrying out a prescribed operation according to a received control command, having:

a first control information storing unit configured
15 to store a control information containing a plurality of operation instructions and control commands respectively corresponding to the operation instructions; and

a control unit configured to carry out a prescribed operation according to each control command; and

20 a control device for controlling the control target device by using a control command, having:

a control information acquisition unit configured to acquire the control information for controlling the control target device, from the control target device;

25 a second control information storing unit configured to store the control information in a rewritable form;

a recognition unit configured to recognize an operation instruction entered by a user;

30 a command search unit configured to carry out a search to check whether the operation instruction recognized by the recognition unit is contained in the control information stored by the second control information storing unit, and output a control command
35 corresponding to the operation instruction when the

operation instruction is contained in the control information; and

5 a command transmission unit configured to transmit the control command outputted by the command search unit to the control target device.

9. The control system of claim 8, further comprising:

a control management device provided between the control target device and the control device, having:

10 a third control information storing unit configured to receive and store the control information transmitted by the control target device; and

a control information supply unit configured to supply a requested control information among the control information stored by the third control information storing unit to the control device, in response to a request for a control information acquisition from the control device.

10. The control system of claim 8, wherein each operation instruction in the control information is given in a form of speech information, and the recognition unit of the control device recognizes the operation instruction entered by the user according to the speech information.

25 11. The control system of claim 8, wherein each operation instruction in the control information is given in a form of image information, and the recognition unit of the control device recognizes the operation instruction entered by the user according to the image information.

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12. The control system of claim 8, wherein each operation instruction in the control information is given in a form of text information, and the recognition unit of the control device recognizes the operation instruction entered by the user according to the text information.

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13. The control system of claim 8, wherein the control
information acquisition unit of the control device acquires
the control information for controlling the control target
5 device by requesting the control information to the control
target device.

14. The control system of claim 13, wherein the control
information acquisition unit of the control device requests
10 the control information to the control target device when a
new control information that is not stored by the control
information storing unit is to be acquired.

15. The control system of claim 8, wherein the control
15 target device is a home electronics device.

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